

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1(currently amended). A luminous device comprised of:

A substrate;

A plurality of transparent electrodes, in which a plurality of convex transparent electrodes are formed onto the substrate in ordered arrangement with an appropriate distance between each other, each electrode having an edge portion;

A conductive layer, which is located on the top layer of the luminous device and parallel to the substrate;

A plurality of insulating film layers wherein said plurality of insulating film layers are arranged to cover said edge portions of said electrodes and said plurality of insulating film layers are arranged to define a cavity above each electrode wherein each cavity has a bottom portion defined by said electrode and each cavity has two side portions defined by side portions of adjacent insulating film layers; and each insulating film layer has an upper convex portion;

A hole-transport layer, on the a hole-injection layer in an insulating film cavity;

A light-emitting layer, on the hole-transport layer in an insulating film cavity; and

An electron-transport layer, on the light-emitting layer in an insulating film cavity.

2(previously presented). A luminous device of claim 1 wherein said the substrate is glass or a plastic film.

3(previously presented). A luminous device of claim 1 wherein the thickness range of the insulating film layer is 50 ~ 5000 nm for a positive photoresist insulating film, and the composition of the insulating film includes phenolic resin, photoactive compound, thermosetting resin, catalyst, solvent, and an adhesive promoter.

Appl. No. 10/092,427
Amendment dated: July 28, 2004
Reply to OA of: June 3, 2004

4(currently amended). A luminous device of claim 3 wherein the insulating positive photo resist film has a convex top face ~~has~~ with a smooth convex ball face shape, and its convex angle is an inclining obtuse angle, forming a smooth gradient and gradually widening shape from the top face to ~~[[the]]~~ a bottom face.

5(currently amended). A luminous device of claim 3 wherein the insulating convex shape results from ~~the~~ a method of postbake heated reflow.

6(previously presented). A luminous device of claim 1 wherein said the material of a plurality of transparent electrodes can be selected from the group consisting of indium-tin-oxide (ITO) and indium-zinc-oxide (IZO).

7(previously presented). A luminous device of claim 1 wherein said the material of the conductive layer is selected from the grouping consisting of Al, Ca, Mg, Li, and lithium alloy.

8(currently amended). A ~~luminous~~ luminous device of claim 3 wherein said thermosetting resin is selected from the group consisting of melamine formaldehyde resins, benzoguanamine formaldehyde resins, and glycoluril formaldehyde resins.

9(currently amended). A luminous device of claim ~~[[1]]~~ 3 wherein said catalyst is acidic or is acidifiable.